



Electronics Level 2 Update

Leon Mualem

University of Minnesota



Project Status: Cost and Schedule

shows very little progress

Status of NOvA Cost & Schedule

11/23/2005

Initial talks with Bill?	List of Tasks	Durations of Tasks	Relationships among tasks	Assign labor resources	Assign M&S \$ Resources	Add contingency	Provide L3 descriptions	Provide Task Notes
-----------------------------	------------------	-----------------------	---------------------------------	------------------------------	-------------------------------	--------------------	----------------------------	-----------------------

WBS

Site and Buildings	X	X	X	x	x	x		X	x
Scintillator	X	x						X	
Fiber	X	x						X	
Extrusions	X	x						X	
Extrusion Modules	X							X	
Electronics	X	x						x	x
DAQ	X	x						x	x
Near Assembly	X	X						X	
Far Assembly	X	X	x	x	x			X	



Electronics WBS progress

	<i>List of Tasks</i>	<i>Duration of Tasks</i>	<i>Relationships</i>	<i>Assign Labor</i>	<i>Assign M&S</i>	<i>Add Contingency</i>	<i>L3 Descriptions</i>	<i>Task notes</i>
2.6.1 Specifications	x						X	
2.6.2 APD Module	X	X	X		x		X	
2.6.3 Readout	X						X	X
2.6.4 Readout Infrastructure	X						X	X



Future

- Plan to have focused phone conferences with players in each area to refine and complete plan for production and R&D, assign tasks.



Electronics R&D

- Prototype ASIC design and layout complete (Fermilab)
 - Submitted to MOSIS for Nov28 run
 - 8 week turn-around expect end of Feb
- Readout board (Harvard)
 - Design of Evaluation board for CERN ADC underway
- APD Module (Minnesota-Harvard-IU)
 - Carrier board for APDs produced by Harvard
 - Machined at UMN
 - Mounted APDs expected ~mid-March



Electronics R&D II

- Thermal Prototyping (See Urheim talk)
- Infrastructure (See Roger's talk)
- Documents:
 - Front-end Requirements –Completed
 - APD module requirements –Draft
 - Interface issue(joint w/ module connector)